Attorney Docket No.: 01CON350P

List of Claims:

Claims 1-7 (cancelled)

8. (currently amended) A method for classifying a speech signal <u>having a background</u> noise portion with a background noise level, the method comprising the steps of:

extracting a parameter from the speech signal;

estimating a noise component of the parameter;

removing the noise component from the parameter to generate a noise-free

parameter;

selecting a pre-determined threshold, wherein the step of selecting said predetermined threshold is unaffected by said background noise level;

comparing the noise-free parameter with a <u>said</u> pre-determined threshold; and associating the speech signal with a class in response to the comparing step.

Claims 9-10 (cancelled)

11. (previously presented) The method of claim 8 wherein a plurality of parameters are extracted to classify the speech signal.

Claims 12-19 (cancelled)

20. (currently amended) A method for processing a speech signal <u>having a background</u> noise portion with a background noise level, the method comprising the steps of:

extracting a set of speech parameters from the speech signal;

forming a set of noise-free parameters based on the speech parameters;

selecting a pre-determined a set of thresholds, wherein the step of selecting said pre-determined set of thresholds is unaffected by said background noise level;

comparing each of the noise-free parameters with each corresponding threshold of a said pre-determined set of thresholds; and

classifying the speech signal based on the comparing step.

Claim 21 (cancelled)

22. (previously presented) The method of claim 20, wherein the forming step comprises: estimating a noise component of the speech signal; and removing the noise component from each of the speech parameters.

Claim 23 (cancelled)

- 24. (previously presented) The method of claim 11, wherein the plurality of parameters include a spectral tilt parameter, a pitch correlation parameter and an absolute maximum parameter.
- 25. (previously presented) The method of claim 11, wherein the removing step removes the noise component from each of the plurality of parameters to generate a plurality of noise-free parameters.
- 26. (previously presented) The method of claim 25, wherein the comparing step compares each of plurality of noise-free parameters with each of a plurality of a corresponding predetermined thresholds.
- 27. (previously presented) The method of claim 8, wherein the step of removing the noise component includes applying weighting to the parameter.
- 28. (previously presented) The method of claim 27, wherein weighting the parameter includes subtracting a background noise contribution.

Claim 29 (cancelled)

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30. (previously presented) The method of claim 20, wherein the plurality of parameters include a spectral tilt parameter, a pitch correlation parameter and an absolute maximum parameter.

Claim 31 (cancelled)

32. (currently amended) A speech coding device for classifying a speech signal <u>having a background noise portion with a background noise level</u>, the speech coding device comprising:

a parameter extractor module configured to extract a parameter from the speech signal to be used for classifying the speech signal;

a noise estimator module configured to estimate a noise component of the parameter;

a noise removal module configured to remove the noise component from the parameter to generate a noise-free parameter;

a comparator module configured to compare the noise-free parameter with a predetermined threshold, wherein said pre-determined threshold is unaffected by said background noise level; and

a classification module configured to associate the speech signal with a class in response to the comparator module.

- 33. (Amended) The speech coding device of claim 32, wherein a plurality of parameters are extracted to classify the speech signal.
- 34. (previously presented) The speech coding device of claim 33, wherein the plurality of parameters include a spectral tilt parameter, a pitch correlation parameter and an absolute maximum parameter.

- 35. (previously presented) The speech coding device of claim 33, wherein the noise removal module removes the noise component from each of the plurality of parameters to generate a plurality of noise-free parameters.
- 36. (previously presented) The speech coding device of claim 35, wherein the comparator module compares each of plurality of noise-free parameters with each of a plurality of a corresponding pre-determined thresholds.
- 37. (previously presented) The speech coding device of claim 32, wherein the noise removal module applies weighting to the parameter.
- 38. (previously presented) The speech coding device of claim 37, wherein weighting the parameter includes subtracting a background noise contribution.

Claim 39 (cancelled)

40. (currently amended) A computer program product for classifying a speech signal having a background noise portion with a background noise level, the computer program product comprising:

code for extracting a parameter from the speech signal;

code for estimating a noise component of the parameter;

code for removing the noise component from the parameter to generate a noise-free parameter;

code for selecting a pre-determined threshold, wherein selection of said predetermined threshold is unaffected by said background noise level:

code for comparing the noise-free parameter with a <u>said</u> pre-determined threshold; and

code for associating the speech signal with a class in response to the code for comparing.

- 41. (previously presented) The computer program product of claim 40, wherein a plurality of parameters are extracted to classify the speech signal.
- 42. (previously presented) The computer program product of claim of 41, wherein the plurality of parameters include a spectral tilt parameter, a pitch correlation parameter and an absolute maximum parameter.
- 43. (previously presented) The computer program product of claim of 41, wherein the code for removing removes the noise component from each of the plurality of parameters to generate a plurality of noise-free parameters.
- 44. (previously presented) The computer program product of claim of 43, wherein the code for comparing compares each of plurality of noise-free parameters with each of a plurality of a corresponding pre-determined thresholds.
- 45. (previously presented) The computer program product of claim of 40, wherein the code for removing includes code for applying weighting to the parameter.
- 46. (previously presented) The computer program product of claim of 45, wherein the code for applying weighting includes code for subtracting a background noise contribution.

Claim 47 (cancelled)

48. (new) The method of claim 11, wherein said spectral tilt parameter is weighted to generate a noise-free spectral tilt parameter during the step of removing, said pitch correlation parameter is weighted to generate a noise-free pitch correlation parameter during the step of

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removing and said absolute maximum parameter is weighted to generate a noise-free absolute maximum parameter during the step of removing.

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